

hypochlorite. Minimum contact times effective for target organisms as stated on product master label.

(3) Inventive disinfectant wipe corresponding to Composition # 3 (Table 1) with a 0.55 weight % sodium hypochlorite loaded onto a 100% polyester substrate.

Without departing from the spirit and scope of this invention, one of ordinary skill can make various changes and modifications to the invention to adapt it to various usages and conditions. As such, these changes and modifications are properly, equitably, and intended to be, within the full range of equivalence of the following claims.

What is claimed is:

1. A disinfecting article comprising:
  - a. an aqueous hypohalite releasing composition,
  - b. an absorbent carrier, and
  - c. a packaging system dispensably housing a single or multiple number of disinfectant substrates, wherein said disinfectant article maintains the stability of the hypohalite releasing composition of at least 25% after 11 days at 120<sup>0</sup> F.
2. The disinfecting article of Claim 1, wherein the absorbent carrier material is impregnated with a disinfecting amount of said aqueous hypohalite releasing composition.
3. The disinfecting article of Claim 1, wherein said absorbent carrier comprises a synthetic polymer substrate comprising polyester, polyethylene, hydrophobically or hydrophilically modified polyester, or mixtures thereof.
4. The disinfecting article of Claim 1, wherein said absorbent carrier further comprises a substantially attached layer of a liquid impervious barrier, said barrier substantially attached to at least one portion of the absorbent carrier so as to provide a liquid impervious barrier between the absorbent carrier and a gripping means, wherein said liquid impervious barrier substantially prevents contact of the aqueous disinfectant composition with said gripping means.
5. The disinfecting article of Claim 1, wherein said absorbent carrier attaches to a cleaning implement.
6. The disinfecting article of Claim 1, wherein the aqueous hypohalite releasing compositions comprises:
  - a. an alkali metal hypohalite,
  - b. a source of alkalinity, and
  - c. optionally, one or more hypohalite stable adjuncts, such as surfactants, hydrotropes, stabilizers, sequestrants, thickeners, rheology modifiers, tensides, phase transfer agents, wetting agents, anti-foam agents, fragrances, colorants, pigments, dyes and the like, or any mixture thereof.

7. The disinfecting article of Claim 6, wherein the alkali metal hypohalite is sodium hypochlorite, and wherein the source of alkalinity comprises sodium or potassium hydroxide.
8. The disinfecting article of Claim 6, wherein the alkali metal hypohalite is sodium hypochlorite, and wherein the source of alkalinity comprises borates, polyphosphates, pyrophosphates, triphosphates, tetraphosphates, silicates, metasilicates, polysilicates, carbonates, or a mixture thereof.
9. The disinfecting article of Claim 1, wherein said packaging system is adapted to securely hold a single or multiple number of disinfecting articles, wherein the storage system comprises a substantially liquid impervious sealable package means.
10. The disinfecting article of Claim 1, wherein said packaging system is adapted to securely hold a single or multiple number of disinfecting articles, wherein the storage system comprises a substantially gas impervious sealable package means.
11. The disinfecting article of Claim 1, wherein said packaging system comprises a substantially liquid impervious sealable pouch, container, tub or cylindrical package, or combination thereof, and wherein said package means provides for the storage of a single or multiple number of disinfecting articles.
12. A method of disinfecting hard surfaces comprising treating the hard surface with a disinfecting article comprising:
  - a. an aqueous hypohalite releasing composition,
  - b. an absorbent carrier, and
  - c. a packaging system dispensibly housing a single or multiple number of disinfectant substrates, wherein said disinfectant article maintains the stability of the hypohalite releasing composition of at least 25% after 11 days at 120° F.
13. A method of disinfecting hard surfaces comprising treating the hard surface with the disinfecting article of Claim 12, wherein the absorbent carrier material is impregnated with a disinfecting amount of said aqueous hypohalite releasing composition.
14. A method of disinfecting hard surfaces comprising treating the hard surface with the disinfecting article of Claim 12, wherein said absorbent carrier comprises a synthetic polymer substrate comprising polyester, polyethylene, hydrophobically or hydrophilically modified polyester, or mixtures thereof.
15. A method of disinfecting hard surfaces comprising treating the hard surface with the disinfecting article of Claim 12, wherein said absorbent carrier further comprises a substantially attached layer of a liquid impervious barrier, said barrier substantially attached to at least one portion of the absorbent carrier so as to provide a liquid impervious barrier between the absorbent carrier and a gripping means, wherein said liquid impervious barrier substantially prevents contact of the aqueous disinfectant composition with said gripping means.

16. A method of disinfecting hard surfaces comprising treating the hard surface with the disinfecting article of Claim 12, wherein said absorbent carrier attaches to a cleaning implement.
17. A method of disinfecting hard surfaces comprising treating the hard surface with the disinfecting article of Claim 12, wherein the aqueous hypohalite releasing compositions comprises:
  - a. an alkali metal hypohalite,
  - b. a source of alkalinity, and
  - c. optionally, one or more hypohalite stable adjuncts, such as surfactants, hydrotropes, stabilizers, sequestrants, thickeners, rheology modifiers, tensides, phase transfer agents, wetting agents, anti-foam agents, fragrances, colorants, pigments, dyes and the like, or any mixture thereof.
18. A method of disinfecting hard surfaces comprising treating the hard surface with the disinfecting article of Claim 17, wherein the alkali metal hypohalite is sodium hypochlorite, and wherein the source of alkalinity comprises sodium or potassium hydroxide.
19. A method of disinfecting hard surfaces comprising treating the hard surface with the disinfecting article of Claim 17, wherein the alkali metal hypohalite is sodium hypochlorite, and wherein the source of alkalinity comprises borates, polyphosphates, pyrophosphates, triphosphates, tetraphosphates, silicates, metasilicates, polysilicates, carbonates, or a mixture thereof.
20. A method of disinfecting hard surfaces comprising treating the hard surface with the disinfecting article of Claim 12, wherein said packaging system is adapted to securely hold a single or multiple number of disinfecting articles, wherein the storage system comprises a substantially liquid impervious sealable package means.
21. A method of disinfecting hard surfaces comprising treating the hard surface with The disinfecting article of Claim 12, wherein said packaging system is adapted to securely hold a single or multiple number of disinfecting articles, wherein the storage system comprises a substantially gas impervious sealable package means.
22. A method of disinfecting hard surfaces comprising treating the hard surface with the disinfecting article of Claim 12, wherein said packaging system comprises a substantially liquid impervious sealable pouch, container, tub or cylindrical package, or combination thereof, and wherein said package means provides for the storage of a single or multiple number of disinfecting articles.
23. A hypochlorite disinfecting wipe with improved stability that provides superior germ killing on surfaces such as countertops, floors, beds, walls, doorknobs, toilet seats, and the like.